



PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	MIM	Books
Search		Protein	for				Go	Clear
		Limits	Preview/Index		History		Clipboard	Details
Display	default	Show:	20	Send to	File	Get Subsequence		

☐ 1: AAC97073. MEK kinase 1 [Hom...[gi:2815888]

[BLink](#), [Domains](#), [Links](#)

LOCUS AAC97073 1495 aa linear PRI 17-DEC-1998
 DEFINITION MEK kinase 1 [Homo sapiens].
 ACCESSION AAC97073
 VERSION AAC97073.1 GI:2815888
 DBSOURCE locus AF042838 accession [AF042838.1](#)
 KEYWORDS .
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 1495)
 AUTHORS Xia,Y., Wu,Z., Su,B., Murray,B. and Karin,M.
 TITLE JNKK1 organizes a MAP kinase module through specific and sequential
 interactions with upstream and downstream components mediated by
 its amino-terminal extension
 JOURNAL Genes Dev. 12 (21), 3369-3381 (1998)
 MEDLINE 99026111
 PUBMED 9808624
 REFERENCE 2 (residues 1 to 1495)
 AUTHORS Xia,Y., Su,B. and Karin,M.
 TITLE Direct Submission
 JOURNAL Submitted (13-JAN-1998) Pharmacology, University of California at
 San Diego, 9500 Gilman Drive, La Jolla, CA 92093, USA
 COMMENT Method: conceptual translation supplied by author.
 FEATURES
 Location/Qualifiers
 source 1..1495
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /cell_type="T cells; B cells"
 Protein <1..1495
 /product="MEK kinase 1"
 /name="protein kinase MEKK1"
 CDS 1..1495
 /gene="MEKK1"
 /coded_by="AF042838.1:<1..4488"

ORIGIN

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121 aaepgekrap aaepspaaap agrementet lkgllhkmdr peermirekl katcmpawkh
181 ewlerrnrrg pvvvpkipvk gdgsemnhla aespgevqas aaspaskgrr spspgnspsg
241 rtkvsespvg rkrvsvvpvf qsgritpprr apspdgfspe speetnrrvn kvmrar1y1l
301 qqigpnsfli ggdspdnkyr vfignqncsc ahgtfcihll fvmlrvfgle psdpmlwrkt
361 lknfeveslf qkyhsrrssr ikapsrntiq kfvsrmsnsh tlsssststs ssensikdee
421 eqmcpicllg mldeesltvc edgcrnklhh hcmsiwaec rrnreplip lcrskwrshd
481 fyshelsspv dspsslraaq qqtqvqqpla gsrrnqesnf nlthygtqqi ppaykdlaep
541 wiqvfgmelv gclfsrnwnv remalrrlsh dvsgalllan gestgnsngs sgsspsggat
601 sgssqtsisg dvveaccsvl smvcadpvyk vyvaalktlr amlvytpchs laeriklqrl
661 lqpvvdtillv kcadansrts qlsistllel ckgqagelav greilkagsi gggvdyvln
721 cilgnqtesn nwqellgrlc lidrlllefp aefyphivst dvsqaepvei rykkl1sl1t
781 falqsidnsh smvgklrrri ylssarmvtt vphvfskll mlsvssvsth ftrmrrlma
841 yadeveiaea iqlgvedtlq rqqhnsfcrh lfpttiwkpq rtpvlectvh lektgkglca
901 tklsassedi serlarisvg pssstttttt tteqpkpmvq tkgrphsqcl nssplshhsq

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961 lmfpalstps sstpsvpagt atdvskhrlq gfipcripsa spqtqrkfs1 qfhrncpenk
1021 dsdklspvft qsrplpssni hrpkpsrptp gntskqgdps knsmtdlins sskcddsfgl
1081 ssnsnccyt sdetvftpve ekcrldvnte lnssiedlle asmpssdttv tfksevavls
1141 pekaenddty kddvnhnqkc kekmeaeeee alaiamamsa sqvalpivpq lqvengedii
1201 iiqqdtpetl pghtkakqpy redtewlkgq qiglgafssc yqaqdvgtgt lmavkqvtyv
1261 rntssequeev vealreeirm mshlnhpnii rmlgatceks nynlfiewma ggsvahlhsk
1321 ygafkesvvi nyteqllrgl sylhenqiih rdvkganlli dstgqrlria dfgaaarlas
1381 kgtgagefqq qllgtiafma pevlgqqqyg rscdvwsvgc aiiemacakp pwnaekhsnh
1441 lalifkiasa ttapsipshl spglrdvalr clelqpqdrp psrellkhpv frttw

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Revised: August 5, 2002.

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Tue 3 2003 11:22:44

WEST Search History

DATE: Friday, February 14, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L6	L5 and l4	3	L6
L5	L3 and placenta	42	L5
L4	L3 near10 (gene? or nucle?)	20	L4
L3	MEKK1 or mekk or map3k1 or mapkkk1	238	L3
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L2	6168950	3	L2
L1	6288142	1	L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: US 20020172940 A1

L6: Entry 1 of 3

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020172940

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020172940 A1

TITLE: Methods and reagents for isolating biologically active peptides

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gyuris, Jeno	Winchester	MA	US	
Morris, Aaron J.	Boston	MA	US	

US-CL-CURRENT: [435/5](#); [435/7.1](#), [435/7.32](#), [436/518](#), [530/324](#), [530/350](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 2. Document ID: US 20020025536 A1

L6: Entry 2 of 3

File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020025536

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020025536 A1

TITLE: Methods and reagents for isolating biologically active antibodies

PUBLICATION-DATE: February 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gyuris, Jeno	Winchester	MA	US	
Ewert, Sebastian-Meier	Wolfratshausen	MA	DE	
Nagy, Zolton	Wolfratshausen		DE	
Morris, Aaron	Brighton		US	

US-CL-CURRENT: [435/7.1](#); [435/5](#), [435/69.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 3. Document ID: US 6420110 B1

L6: Entry 3 of 3

File: USPT

Jul 16, 2002

US-PAT-NO: 6420110

DOCUMENT-IDENTIFIER: US 6420110 B1

TITLE: Methods and reagents for isolating biologically active peptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
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NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 43 Feb 13 CANCERLIT is no longer being updated

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'WPIDS' ENTERED AT 23:08:45 ON 14 FEB 2003

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=> S MEKK1

L1 2054 MEKK1

=> S L1 AND PY=1993

L2 0 L1 AND PY=1993

=> S L1 (10A) PLACENTA

L3 1 L1 (10A) PLACENTA

=> D

L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS
 AN 2000:84978 HCAPLUS
 DN 132:133888
 TI Forkhead-associated domain protein MIF1 interacting with MEKK1 kinases and the gene encoding it and the regulation of the MEKK signal transduction pathway
 IN Marcireau, Christophe; Multon, Marie-christine; Polard-housset, Valerie
 PA Rhone-Poulenc Rorer S.A., Fr.
 SO PCT Int. Appl., 79 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000005362	A1	20000203	WO 1999-EP5142	19990721
	W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9955057	A1	20000214	AU 1999-55057	19990721
	EP 1100913	A1	20010523	EP 1999-941444	19990721
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002524026	T2	20020806	JP 2000-561308	19990721
PRAI	US 1998-93590P	P	19980721		
	WO 1999-EP5142	W	19990721		
RE.CNT	2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

=> D AB

L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS
 AB The present invention relates to a novel protein of the MEKK signal transduction pathway, and the gene encoding it. The invention further relates to diagnostic and therapeutic uses of the protein or the gene, and to methods of screening for agonists or antagonists of the protein, particularly with respect to MEKK activity. In particular, the invention provides a gene encoding MIF1, the MIF1 protein, and antibodies that specifically bind MIF1. MIF1 and the MIF1 gene can be used in screening assays, particularly to identify agonists and antagonists of MIF1 interaction with MEKK, and thus modulators of the MEKK signal pathway. MIF1 gene (or cDNA) can also be delivered to cells, e.g., for in vitro screening or testing, or in vivo or ex vivo for gene therapy. The protein was identified using a two-hybrid screen. The mRNA was found in all tissues tested and was most abundant in heart, pancreas and placenta with evidence of alternate splicing in the placenta.

=> S L1 (10A) HUMAN

7 FILES SEARCHED...

L4 83 L1 (10A) HUMAN

=> S L4 (10A) (DNA OR GENE? OR NUCLE?)

2 FILES SEARCHED...

5 FILES SEARCHED...

7 FILES SEARCHED...

10 FILES SEARCHED...

L5 17 L4 (10A) (DNA OR GENE? OR NUCLE?)

=> DUP REM L5

PROCESSING COMPLETED FOR L5

L6 12 DUP REM L5 (5 DUPLICATES REMOVED)

=> D 1-12

L6 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:978087 HCAPLUS
DN 138:53906

TI Gene expression profiles for diagnosis of breast cancer patients and
classification based on estrogen receptor and BRCA1 and prognosis
IN Dai, Hongyue; He, Yudong; Linsley, Peter S.; Mao, Mao; Roberts,
Christopher J.; Van't Veer, Laura Johanna; Van de Vijver, Marc J.;
Bernards, Rene; Hart, A. A. M.

PA Rosetta Inpharmatics, Inc., USA
SO PCT Int. Appl., 187 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002103320	A2	20021227	WO 2002-US18947	20020614
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2001-298918P	P	20010618		
	US 2002-380710P	P	20020514		

L6 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:505721 HCAPLUS
DN 137:245071

TI Activation of human monoamine oxidase B gene expression by a protein
kinase C MAPK signal transduction pathway involves c-Jun and Egr-1

AU Wong, Wai K.; Ou, Xiao-Ming; Chen, Kevin; Shih, Jean C.
CS Department of Molecular Pharmacology and Toxicology, School of Pharmacy,
University of Southern California, Los Angeles, CA, 90089-9121, USA

SO Journal of Biological Chemistry (2002), 277(25), 22222-22230
CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2003 ACS DUPLICATE 1
AN 2001:10070 HCAPLUS
DN 134:82715

TI Antisense modulation of MEKK1 expression for therapeutic application

IN Monia, Brett P.; Gaarde, William; Ward, Donna T.; Cowser, Lex M.

PA Isis Pharmaceuticals, Inc., USA

SO U.S., 35 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6168950	B1	20010102	US 1999-359756	19990723
	WO 2001007594	A1	20010201	WO 2000-US19747	20000720
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,			

CF, CG, CI, CM, GA, N, GW, ML, MR, NE, SN, TD, TG
EP 1200573 A1 20020502 EP 2000-947557 20000720
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL
PRAI US 1999-359756 A 19990723
WO 2000-US19747 W 20000720
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2001:728869 HCAPLUS
DN 136:18304
TI Expression of human cystatin A by keratinocytes is positively regulated
via the Ras/MEKK1/MKK7/JNK signal transduction pathway but negatively
regulated via the Ras/Raf-1/MEK1/ERK pathway
AU Takahashi, Hidetoshi; Honma, Masaru; Ishida-Yamamoto, Akemi; Namikawa,
Kazuhiko; Kiyama, Hiroshi; Iizuka, Hajime
CS Department of Dermatology, Asahikawa Medical College, Asahikawa, 078-8510,
Japan
SO Journal of Biological Chemistry (2001), 276(39), 36632-36638
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 12 MEDLINE DUPLICATE 2
AN 2001290699 MEDLINE
DN 21269363 PubMed ID: 11244091
TI MEK7-dependent activation of p38 MAP kinase in keratinocytes.
AU Dashti S R; Efimova T; Eckert R L
CS Departments of Physiology and Biophysics, Case Western Reserve University
School of Medicine, Cleveland, Ohio 44106-4970, USA.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Mar 16) 276 (11) 8059-63.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200106
ED Entered STN: 20010625
Last Updated on STN: 20030105
Entered Medline: 20010621

L6 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2001:506424 HCAPLUS
DN 135:240015
TI Distinctive gene expression profiles associated with Hepatitis B virus
.times. protein
AU Wu, Chuan-Ging; Salvay, David M.; Forgues, Marshonna; Valerie, Kristoffer;
Farnsworth, Julie; Markin, Rodney S.; Wang, Xin Wei
CS Laboratory of Human Carcinogenesis, National Cancer Institute, Bethesda,
MD, 20892-4255, USA
SO Oncogene (2001), 20(28), 3674-3682
CODEN: ONCNES; ISSN: 0950-9232
PB Nature Publishing Group
DT Journal
LA English
RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2001:867565 HCAPLUS
DN 136:116484
TI Modulation of human cytomegalovirus immediate-early gene enhancer by
mitogen-activated protein kinase kinase kinase-1
AU Sun, Bin; Harrowe, Greg; Reinhard, Christoph; Yoshihara, Corinne; Chu,
Keting; Zhuo, Shaoqiu

CS Chiron Corporation, CA, 94-2916, USA
SO Journal of Cellular Biochemistry (2001), 83(4), 563-573
CODEN: JCEBD5; ISSN: 0730-2312
PB Wiley-Liss, Inc.
DT Journal
LA English
RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2000:84978 HCAPLUS
DN 132:133888
TI Forkhead-associated domain protein MIF1 interacting with MEKK1 kinases and the gene encoding it and the regulation of the MEKK signal transduction pathway
IN Marcireau, Christophe; Multon, Marie-christine; Polard-housset, Valerie
PA Rhone-Poulenc Rorer S.A., Fr.
SO PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000005362	A1	20000203	WO 1999-EP5142	19990721
	W:	AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9955057	A1	20000214	AU 1999-55057	19990721
	EP 1100913	A1	20010523	EP 1999-941444	19990721
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	JP 2002524026	T2	20020806	JP 2000-561308	19990721
PRAI	US 1998-93590P	P	19980721		
	WO 1999-EP5142	W	19990721		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2000:192958 HCAPLUS
DN 132:306670
TI The gene MAPK8IP1, encoding islet-brain-1, is a candidate for type 2 diabetes
AU Waeber, Gerard; Delplanque, Jerome; Bonny, Christophe; Mooser, Vincent; Steinmann, Myriam; Widmann, Christian; Maillard, Anne; Miklossy, Judith; Dina, Christian; Hani, El Habib; Vionnet, Nathalie; Nicod, Pascal; Boutin, Philippe; Froguel, Philippe
CS Department of Internal Medicine, CHUV-University Hospital, Lausanne, Switz.
SO Nature Genetics (2000), 24(3), 291-295
CODEN: NGENEC; ISSN: 1061-4036
PB Nature America
DT Journal
LA English
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 12 WPIDS (C) 2003 THOMSON DERWENT
AN 1999-508649 [42] WPIDS
CR 1999-571843 [48]; 2002-462905 [49]
DNN N1999-379027 DNC C1999-148629
TI A new mammalian serine-threonine protein kinase for treating disorder characterized by aberration of the enzyme gene.
DC B04 D16 S03
IN JOHNSON, G L

PA (CADU-N) CADUS PHARM CORP; (AJE-N) NAT JEWISH CENT IMMUNOL &
RESPIRATORY
CYC 84
PI WO 9941385 A1 19990819 (199942)* EN 105p C12N015-54
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SZ UG ZW
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD
GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
UA UG US UZ VN YU ZW
AU 9932895 A 19990830 (200003) C12N015-54
US 2002146798 A1 20021010 (200269) C12N009-12
ADT WO 9941385 A1 WO 1999-US2974 19990212; AU 9932895 A AU 1999-32895
19990212; US 2002146798 A1 Provisional US 1998-78153P 19980316,
Provisional US 1998-99165P 19980904, Cont of US 2000-423890 20000306, US
2001-864 20011031
FDT AU 9932895 A Based on WO 9941385
PRAI US 1998-23130 19980213
IC ICM C12N009-12; C12N015-54
ICS A61K031-00; A61K048-00; C07H021-04; C07K016-40; C07K019-00;
C12N005-06; C12N005-10; C12N015-62; C12P021-02; C12Q001-68;
G01N033-573

L6 ANSWER 11 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:103400 BIOSIS
DN PREV200000103400
TI MEKK1 suppresses oxidative stress-induced apoptosis of embryonic stem
cell-derived cardiac myocytes.
AU Minamino, Tetsuo; Yujiri, Toshiaki; Papst, Philip J.; Chan, Edward D.;
Johnson, Gary L.; Terada, Naohiro (1)
CS (1) Department of Pathology, University of Florida College of Medicine,
Gainesville, FL, 32610 USA
SO Proceedings of the National Academy of Sciences of the United States of
America, (Dec. 21, 1999) Vol. 96, No. 26, pp. 15127-15132.
ISSN: 0027-8424.
DT Article
LA English
SL English

L6 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 1998:638916 HCAPLUS
DN 129:340468
TI Regulation of human involucrin promoter activity by a protein kinase C,
Ras, MEKK1, MEK3, p38/RK, AP1 signal transduction pathway
AU Efimova, Tatiana; LaCelle, Peter; Welter, Jean F.; Eckert, Richard L.
CS Department of Physiology and Biophysics, Case Western Reserve University
School of Medicine, Cleveland, OH, 44106-4970, USA
SO Journal of Biological Chemistry (1998), 273(38), 24387-24395
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 82 THERE ARE 82 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D 10-12 AB

L6 ANSWER 10 OF 12 WPIDS (C) 2003 THOMSON DERWENT
AB WO 9941385 A UPAB: 20021031
NOVELTY - A MEK kinase, designated MEKK1, is new.
DETAILED DESCRIPTION - Isolated polypeptides (P1 and P2 respectively)
comprise:
(a) a fragment of a polypeptide comprising the 1493 (I) or 1302 (II)
amino acid (aa) sequence (given in the specification);
(b) a naturally occurring allelic variant of a polypeptide comprising
sequence (I) or (II), encoded by a nucleic acid molecule (NAM) which
hybridizes under stringent conditions to respectively the 5253 (III) or
3911 (IV) nt sequence (given in the specification);

(c) a polypeptide encoded by sequence III or IV, and
 (d) a polypeptide comprising sequence (I) or (II).
 INDEPENDENT CLAIMS are also included for the following:
 (1) isolated NAM's (N1 and N2 respectively) comprising:
 (a) a fragment of at least 100 contiguous nt of sequence (III) or (IV);
 (b) the nt sequence of (III) or (IV), or their complement;
 (c) a NAM encoding a polypeptide comprising (I) or (II);
 (d) a NAM encoding a polypeptide comprising at least 15 contiguous aa residues of (I) or (II);
 (e) a NAM encoding a natural allelic variant of (I) or (II), which hybridizes under stringent conditions to (III) or (IV), respectively;
 (f) a nucleic acid antisense to the coding strand of a NAM having sequence (III) or (IV), respectively;
 (2) a host cell containing N1 or N2;
 (3) a fusion protein of P1 or P2 operatively linked to heterologous aa sequences;
 (4) an antibody which selectively binds to P1 or P2;
 (5) producing P1 or P2 by culturing the host cell;
 (6) detecting a MEKK1 polypeptide in a sample by:
 (a) contacting the sample with a compound which selectively binds the polypeptide, and
 (b) detecting bound compound;
 (7) detecting presence of a MEKK1 nucleic acid in a sample by:
 (a) contacting the sample with a nucleic acid probe or primer which selectively binds the nucleic acid, and
 (b) detecting bound probe or primer;
 (8) detecting biological activity of a MEKK1 polypeptide in a sample by contacting the sample with an agent capable of detecting MEKK1 activity;
 (9) modulating MEKK1 activity by contacting a cell with an agent that modulates MEKK1 activity, particularly an antibody that binds MEKK1 protein or a nucleic acid antisense to MEKK1 mRNA;
 (10) detecting a genetic alteration characterized by aberrant modification or mutation of a gene encoding a MEKK1 protein, and/or mis-regulation of that gene, and/or aberrant post-translational modification of a MEKK1 protein, where a wild-type form of that gene encodes a protein with MEKK1 activity;
 (11) an isolated active fragment of a MEKK1 protein which mediates apoptosis, comprising an amino acid sequence at least 75% homologous to about residues 875-1493 of sequence (I);
 (12) an isolated protease-resistant MEKK1 protein, comprising a sequence at least 75% homologous to sequence (I), where at least one aa equivalent to residues 871-874 is substituted such that the MEKK 1 protein is resistant to proteolysis by a caspase after amino acid 874;
 (13) an isolated NAM encoding an active fragment of a MEKK1 polypeptide that mediates apoptosis, and comprising a sequence at least 75% (preferably 95%) homologous to about nt 2637-4493 of sequence (III);
 (14) an isolated NAM encoding the protease-resistant MEKK1 protein of (12);
 (15) an expression vector comprising the NAM of (13) or (14);
 (16) a host cell comprising one of the expression vectors;
 (17) an isolated NAM encoding a protease-resistant MEKK1 protein comprising (II), with at least one codon encoding an aa equivalent to at least one of aa 681-684 of (II), so that the encoded protein is resistant to proteolysis by a caspase after an aa equivalent to 681-684;
 (18) stimulating apoptosis in a cell comprising introducing an expression vector encoding a MEKK1 active fragment;
 (19) inhibiting apoptosis in a cell comprising introducing protease-resistant MEKK1 protein;
 (20) generating a MEKK1 active fragment in vitro, comprising contacting a MEKK1 protein with a caspase protease under proteolysis conditions, and allowing the MEKK1 protein to be cleaved to generate an active fragment, and
 (21) identifying a compound that modulates proteolytic cleavage of a MEKK1 protein by caspase protease comprising contacting the protein and protease with a candidate compound and determining the effect of the compound on proteolytic cleavage.

ACTIVITY - Regulatory: MEKK1 functions to integrate proteases and

signal transduction pathway to regulate cellular apoptosis

MECHANISM OF ACTION - Enzymatic: MEKK proteins are serine-threonine protein kinases that phosphorylate and regulate MEK proteins.

USE - A MEKK1 modulator is used to treat a disorder characterized by aberrant MEKK1 protein or nucleic acid expression or activity (claimed).

ADVANTAGE - None given

Dwg.0/25

L6 ANSWER 11 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AB A combination of in vitro embryonic stem (ES) cell differentiation and targeted gene disruption has defined complex regulatory events underlying oxidative stress-induced cardiac apoptosis, a model of postischemic reperfusion injury of myocardium. ES cell-derived cardiac myocytes (ESCM) having targeted disruption of the MEKK1 gene were extremely sensitive, relative to wild-type ESCM, to hydrogen peroxide-induced apoptosis. In response to oxidative stress, MEKK1-/- ESCM failed to activate c-Jun kinase (JNK) but did activate p38 kinase similar to that observed in wild-type ESCM. The increased apoptosis was mediated through enhanced tumor necrosis factor alpha production, a response that was positively and negatively regulated by p38 and the MEKK1-JNK pathway, respectively. Thus, MEKK1 functions in the survival of cardiac myocytes by inhibiting the production of a proapoptotic cytokine. MEKK1 regulation of the JNK pathway is a critical response for the protection against oxidative stress-induced apoptosis in cardiac myocytes.

L6 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AB Involucrin is a marker of keratinocyte terminal differentiation. Our previous studies show that involucrin mRNA levels are increased by the keratinocyte differentiating agent, 12-O-tetradecanoylphorbol-13-acetate (TPA) (Welter, J. F., Crish, J. F., Agarwal, C., and Eckert, R. L. (1995) J. Biol. Chem. 270, 12614-12622). We now study the signaling cascade responsible for this regulation. Protein kinase C and tyrosine kinase inhibitors inhibit both the TPA-dependent mRNA increase and the TPA-dependent increase in hINV promoter activity. The relevant response element is located within the promoter proximal regulatory region and includes an AP1 site, AP1-1. Co-transfection of the hINV promoter with dominant neg. forms of Ras, MEKK1, MEK1, MEK7, MEK3, p38/RK, and c-Jun inhibit the TPA-dependent increase. Wild type MEKK1 enhances promoter activity and the activity can be inhibited by dominant neg. MEKK1, MEK1, MEK7, MEK3, p38/RK, and c-Jun. In contrast, wild type Raf-1, ERK1, ERK2, MEK4, or JNK1 produced no change in activity and the dominant neg. forms of these kinases failed to suppress TPA-dependent transcription. Treatment with an S6 kinase (S6K) inhibitor, or transfection with constitutively active S6K produced relatively minor changes in promoter activity, ruling out a regulatory role for S6K. These results suggest that activation of involucrin transcription involves a pathway that includes protein kinase C, Ras, MEKK1, MEK3, and p38/RK. Addnl. pathways that transfer MEKK1 activation via MEK1 and MEK7 also may function, but the downstream targets of these kinases need to be identified. AP1 transcription factors appear to be the ultimate target of this regulation.

=> DIS HIS

(FILE 'HOME' ENTERED AT 23:08:33 ON 14 FEB 2003)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 23:08:45 ON 14 FEB 2003

L1 2054 S MEKK1
L2 0 S L1 AND PY=1993
L3 1 S L1 (10A) PLACENTA
L4 83 S L1 (10A) HUMAN
L5 17 S L4 (10A) (DNA OR GENE? OR NUCLE?)
L6 12 DUP REM L5 (5 DUPLICATES REMOVED)

=> LOG H

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

43.90

44.11

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

CA SUBSCRIBER PRICE

ENTRY

SESSION

-1.30

-1.30

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 23:18:11 ON 14 FEB 2003